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United States  
Department of  
Agriculture

Soil  
Conservation  
Service

Salt Lake City  
Utah



# WATER SUPPLY OUTLOOK FOR UTAH

in Cooperation with Utah State Department  
of Natural Resources



OCTOBER 1, 1985



## TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent of surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1,900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

## PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, West Technical Service Center, Room 510, 511 N.W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

<u>STATE</u>	<u>ADDRESS</u>
Alaska	Room 129, 2221 East Northern Lights Blvd., Anchorage, Alaska 99504
Arizona	Room 3008, Federal Building, 230 N. First Ave., Phoenix, Arizona 85025
Colorado (N. Mexico)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th St., Boise, Idaho 83702
Montana	P. O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno, Nevada 89505
Oregon	1220 S. W. Third Ave., Portland, Oregon 97204
Utah	4418 Federal Bldg., 125 South State St., Salt Lake City, Utah 84147
Washington	360 U. S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82602

## PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Snow Surveys Branch, California Department of Water Resources, P. O. Box 388, Sacramento, California 95802 -- for British Columbia by the Ministry of the Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia V8V 1X5 -- for Yukon Territory by the Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory Y1A 3V1 -- and for Alberta, Saskatchewan, and N.W.T. by the Water Survey of Canada, Inland Waters Branch, 110-12 Avenue S.W., Calgary, Alberta T3C 1A6.

# **WATER SUPPLY OUTLOOK FOR UTAH**

**and  
FEDERAL-STATE-PRIVATE COOPERATIVE SNOW SURVEYS**

**Issued by**

**WILSON SCALING  
CHIEF  
SOIL CONSERVATION SERVICE  
WASHINGTON, D.C.**

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**Released by**

**FRANCIS T. HOLT  
STATE CONSERVATIONIST  
SOIL CONSERVATION SERVICE  
SALT LAKE CITY, UTAH**

**In Cooperation with**

<b>UTAH STATE DEPARTMENT OF NATURAL RESOURCES</b>	
<b>ROBERT L. MORGAN</b>	<b>D. LARRY ANDERSON</b>
<b>State Engineer</b>	<b>Director</b>
<b>Division of Water Rights</b>	<b>Division of Water Resources</b>

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**Report prepared by Snow Survey Staff**

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As Of October 1, 1985

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* * * * *
* Utah's 1985 season provided adequate water supplies *
* while flood damage, relative to the last two years, *
* was kept at a minimum. Summer precipitation and total *
* precipitation for the water year at mountain stations *
* throughout most of the state was near to above *
* average. Reservoir storage stands at 80% of capacity. *
* Soil moisture over most of the state is near average. *
* Observed streamflows this summer were generally *
* greater than forecast last June 1. *
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Snow melt began earlier than normal this year with all but the highest and most protected sites showing melt shortly after April 1 and finishing melt on the majority of courses well before June 1.

Summer precipitation at mountain stations varied across the state. Below average rainfall occurred on the Lower Sevier and north slope of the Uintas. Much above average precipitation fell on the mountains east and north of Cache Valley and on many of the drainages on the south slope of the Uintas. The rest of the state experienced near normal precipitation.

Reservoir storage in twenty-five of Utah's key irrigation reservoirs is 137% of the October 1 average and 80% of usable capacity.

Streamflow at Utah's 7 key gaging stations is running at 153% of the median flow ranging from 107% for the Whiterocks River near Whiterocks to 243% for the San Juan River near Bluff.

The following table compares May 1 forecasts with provisional flow measured by the U. S. Geological Survey.

<u>Station</u>	<u>Forecast Period</u>	<u>May 1 Forecast (1000 A. F.)</u>	<u>Measured Flow for the Period (1000 A. F.)</u>	
			<u>1985</u>	<u>1984</u>
<u>BEAR RIVER</u>				
Bear nr Woodruff	May-July	118	90	237
Logan nr Logan (combined)	May-July	96	99	192
Blacksmith Fk nr Hyrum	May-July	37	43	104
Little Bear nr Paradise	May-June	20	31	72
<u>WEBER-OGDEN RIVERS</u>				
Weber nr Oakley	May-June	95	97	146
Rockport Reservoir Inflow	May-June	97	105	168
Chalk Creek nr Coalville	May-June	29	38	67
Weber nr Coalville	May-June	101	111	173
Lost Creek nr Croydon	May-June	14.3	12.2	30
East Cyn. Creek nr Morgan	May-June	22	24	45
Echo Reservoir Inflow	May-June	121	112	196
Weber River nr Gateway	May-June	247	251	506
South Fk Ogden nr Huntsville	May-June	33	37	90
Pineview Reservoir Inflow	May-June	63	62	239



## RESERVOIR STORAGE (Thousand Acre Feet) END OF MONTH

Basin or Stream	RESERVOIR	Usable Capacity	Usable Storage		
			This Year	Last Year	Average†
GREAT BASIN					
<u>Bear River</u>	Bear Lake	1421.0	1126.5	1279.1	1012.8
	Woodruff Narrows	55.8	16.7	55.1	--
	Woodruff Creek	4.0	1.4	--	--
<u>Beaver River</u>	Minersville (RkyFd)	26.0	6.3	15.2	4.9
<u>Little Bear</u>	Hyrum	15.3	10.3	14.0	7.4
	Porcupine	11.3	4.6	5.0	1.8 <sup>b</sup>
<u>Ogden</u>	Causey	6.9	2.2	3.4	1.8 <sup>b</sup>
	Pineview	110.1	59.9	80.6	52.7
<u>Provo</u>	Deer Creek	149.7	90.4	125.7	90.5
<u>Settlement Creek</u>	Settlement Creek	1.0	0.3	--	0.1 <sup>a</sup>
	Vernon Creek	0.6	0.4	0.6	0.1 <sup>b</sup>
<u>Sevier River</u>	Gunnison	18.2	7.6	15.6	3.9 <sup>b</sup>
	Otter Creek	52.5	41.8	49.4	16.8
	Piute	71.8	0.0	44.7	11.7
	Sevier Bridge	236.0	178.7	113.4	55.3
	Panguitch Lake	22.3	16.6	20.5	--
<u>Utah Lake</u>	Utah Lake	883.9	956.6	1114.9	516.6
<u>Weber</u>	East Canyon	48.1	37.6	41.2	31.6 <sup>b</sup>
	Echo	73.9	26.0	38.5	23.9
	Lost Creek	20.0	16.5	15.3	13.1 <sup>b</sup>
	Rockport	60.9	48.7	57.9	40.6
	Willard Bay	193.3	149.9	157.4	124.3 <sup>a</sup>
COLORADO R. BASIN					
<u>Ashley Creek</u>	Steinaker	33.3	23.0	22.8	16.1 <sup>b</sup>
	Red Fleet	26.0	21.5	19.4	--
<u>Colorado</u>	Blue Mesa	829.5	727.0	789.5	--
	Lake Powell	25002.0	22760.0	24328.0	--
<u>Green</u>	Flaming Gorge	3749.0	3295.0	3683.4	--
<u>Lakefork</u>	Moon Lake	35.8	9.4	20.2	9.1
<u>Price River</u>	Scofield	65.8	40.3	43.9	30.4
<u>San Juan</u>	Navajo	1696.0	1586.0	1632.8	--
	Ken's Lake	2.3	0.2	0.2	--
<u>San Rafael</u>	Huntington North	3.9	2.5	2.7	1.2 <sup>b</sup>
	Joe's Valley	54.6	45.1	42.3	44.3 <sup>b</sup>
	Mill Site	16.7	7.6	9.3	2.8 <sup>b</sup>
<u>Strawberry</u>	Starvation	165.3	143.0	154.3	104.6 <sup>b</sup>
	Strawberry (enlarged)	951.4	337.6	--	--

a - Partly estimated

b - Average of past record in average period - less than 20 years

+ - 1961-80 20 year average period

<u>Station</u>	<u>Forecast Period</u>	<u>May 1 Forecast (1000 A. F.)</u>	<u>Measured Flow for the Period (1000 A. F.)</u>	
			<u>1985</u>	<u>1984</u>
<u>PROVO-UTAH LAKE</u>				
Little Cottonwood Ck. nr SLC	May-July	36	36	58
Big Cottonwood Ck. nr SLC	May-July	41	39	54
Parley's Ck. nr SLC	May-July	13.0	13.4	31
Mill Ck. nr SLC	May-July	6.3	7.6	12.9
Emigration Ck. nr SLC	May-July	2.3	3.3	8.5
City Ck. nr SLC	May-July	6.0	7.4	16.1
S. Willow Ck. nr Grantsville	May-July	3.4	2.0	5.9
Vernon Ck. nr Vernon	May-June	0.6	1.3	2.2
Provo River nr Hailstone	May-July	87	100	161
Strawberry Reservoir Inflow	May-July	55	74	81
<u>UINTAH BASIN &amp; DAGGETT SCD'S</u>				
Strawberry at Duchesne	May-July	58	50	141
Currant Creek nr Fruitland	May-July	18.5	32	47
Whiterocks nr Whiterocks	May-July	66	42	56
Black's Fork nr Millburne	May-July	95	83	121
<u>SEVIER RIVER INCL. BEAVER RIVER</u>				
Sevier at Hatch	May-July	50	48	39
Beaver nr Beaver	May-July	23	30	47
<u>SAN RAFAEL, MUDDY, VIRGIN, AND FREMONT RIVERS INCL. MILL CK. NR MOAB</u>				
Cottonwood Ck. nr Orangeville	May-July	57	74	159
Ferron nr Ferron	May-July	44	37	77
Muddy Creek nr Emery	May-July	21	23	44
Seven Mile Creek nr Fish Lake	May-July	5.6	7.4	14.7
Mill Creek nr Moab	May-July	4.8	6.7	17.4
Virgin nr Hurricane	May-June	40	19.4	21
Coal Ck. nr Cedar City	May-July	14.8	16.3	16.3



P R E C I P I T A T I O N      D A T A  
OCTOBER 1985  
MONTHLY VALUES

STATION	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
ASHLEY TWIN LAKES													*
ATWOOD LAKE	3.50	2.30	3.50	0.80	2.00	2.60	2.00	2.00	1.90	3.40	0.50	2.20	26.70
BEAVER	1.89	0.96	1.04	0.38	0.33	2.18	1.10	0.67	0.77	2.04	0.12	1.16	12.64
BEAVER CREEK DIVIDE	3.30	4.40	3.00	0.80	0.50	4.10	3.70	2.40	0.50	2.60	0.50	2.20	28.00
BEAVER DAMS	4.07		5.67	1.44	2.18	4.05	3.35	2.52				5.58	28.86
BEN LOMOND PEAK	9.00	12.80	3.80	3.20	7.70	7.00	2.80	4.00	0.60	3.30	2.40	7.60	64.20
BEN LOMOND TRAIL		14.00	3.61	0.91	4.34	3.22	3.58	4.11	0.45			9.40	43.62
BIG FLAT			9.57	2.25	1.91	2.44	6.23	2.29	1.02			5.01	30.72
BLACK'S FLAT-U.M. CREEK			7.65	0.56	1.56	3.71	5.40	2.76	0.96	2.37		2.46	27.43
BLACK'S FORK JUNCTION	1.87		4.54	0.89	1.27	1.84	2.64	2.33	1.33			5.50	22.21
BLACK FORK GS-EAST FORK	2.01		4.27	0.88	1.70	1.57	3.13	1.95	1.14			5.03	21.68
BOX CREEK			10.68	1.31	1.55	2.09	5.96	2.46	1.44			3.20	28.69
BROWN DUCK RIDGE			11.37	1.40	1.50	3.25	2.55	2.19				10.18	32.44
BUCK FLAT			13.79	1.47	1.79	3.68	2.84	2.42	1.23			4.80	32.02
BUCK PASTURE													*
BUCKBOARD FLAT	6.30		5.40	7.00	1.50	5.25	5.50	1.80	0.60			11.25	44.60
BUG LAKE			10.18	1.20	3.44	2.29	3.41	1.51	0.44			3.17	25.64
BURNT CREEK	2.25	0.50	0.85	1.15	1.50	2.70	2.25	2.35	0.40			9.50	23.45
BURTS-MILLER RANCH			5.08	0.53	1.03	1.60	3.68	1.85	1.25			2.19	17.21
CAMP JACKSON	4.75		6.35	7.10	1.30	4.50	5.10	1.40	0.20			9.45	40.15
CASTLE VALLEY			10.26	1.29	0.68	3.89	4.08	2.69	1.16			8.15	32.20
CHALK CREEK #1												38.53	38.53
CHALK CREEK #2												26.34	26.34
CHALK CREEK #3												5.25	24.76
CAUSEY DAM												3.60	23.22
CHEPETA	2.50	2.10	3.70	0.90	1.80	4.10	1.40	2.50	1.30	5.70	0.60	4.70	31.30
CHEPETA-WHITEROCKS LAKES												32.14	32.14
CLARKSTON MOUNTAIN												30.37	30.37
CLEAR CREEK RIDGE #1	6.00	3.80	4.60	2.30	2.10	4.30	2.40	1.50	1.30	3.40	0.20	2.20	34.10
CLEAR CREEK RIDGE #2	3.53		6.18	2.05	4.10	3.91	1.85	1.71	1.50			5.90	30.73
CURRENT CREEK	3.45		6.43	2.28	2.16	3.23	1.59	1.93	0.14			6.62	27.83
DANIELS-STRAWBERRY SUM	4.63		8.58	3.16	3.05	2.48	3.12	2.59	0.11			7.33	35.05
DESERET PEAK													
DILL'S CAMP	5.46		6.92	1.09	1.38	3.87	2.34	1.84	1.47			5.25	29.62
DRY BREAD POND	4.50	5.20	3.10	1.20	2.40	5.20	1.80	3.10	1.20	1.40	0.00	3.10	32.20
DUCK CREEK R.S.			13.46	1.94	1.56	4.25	5.45	2.57				7.41	36.64
DUTCHMAN RANGER STATION													
EAST PORTAL	4.63	3.65	3.85	1.65	2.18	3.68	2.00	2.14	1.62	2.41	0.11	1.77	29.69
FARMINGTON CANYON (UP)	9.00	9.90	4.80	0.90	4.90	6.80	3.10	5.10	1.30	1.20	0.20	4.80	52.00
FARMINGTON CANYON (LOW)			11.20	1.60	3.45	4.25	2.39	2.69					*
FARMINGTON GUARD STATION			10.18	1.95	3.78	5.47	3.25	4.98					
FARNSWORTH LAKE			12.37	0.74	2.96	5.49	5.34	2.59	1.20			5.40	36.09
FILLMORE	2.19	0.82	1.07	1.04	1.63	2.79	2.93	1.75	0.97	1.99	0.10	1.25	18.53
FISH LAKE RANGER STATION			6.50	0.54	1.44	3.46	2.50	1.66	0.96			4.65	21.71
FIVE POINT LAKE	4.70	2.60	3.70	1.10	1.90	4.70	2.60	2.70	1.70	3.50	0.50	2.70	32.40

STATION	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
FRANCIS CANYON													
FRANKLIN BASIN	5.90	8.70	4.70	1.20	4.20	5.70	2.70	2.90	17.40	3.00	0.30	2.70	20.10
G.B.R.C. HEADQUARTERS		12.00	3.85	1.72	2.36	4.48	4.37	2.26	1.00	3.00	0.08	3.50	43.80
G.B.R.C. MAJORS		6.35	2.50	0.90	0.75		6.10	1.45	1.70	3.00	0.08	1.47	37.29
G.B.R.C. MEADOWS		13.00	4.25	1.84	3.12	5.18	4.76	1.09	1.60	1.50	0.05	0.75	21.95
G.B.R.C. OAKS		7.85	3.10	1.00	0.75		7.00	1.09	1.80	2.42	0.12	1.78	39.36
GARDEN CITY SUMMIT			12.49	0.90	2.86	2.25	3.16	1.50	1.60	1.80	0.07	1.00	25.67
GEORGE PEAK								2.74	1.61			6.25	32.26
GOOSEBERRY R.S.		8.15	1.04	0.40	2.43	3.99	4.53	1.92	1.50	4.90		0.16	29.02
GOOSEBERRY RESERVOIR			14.81	1.68	2.97	3.92	3.36	2.74	1.83			5.45	36.76
GRIZZLY RIDGE	3.55	1.35	2.15	1.95	2.20	3.50	1.80	2.45	0.65			9.30	28.90
GUILDERS PEAK									31.90			5.20	37.10
HARDSCRABBLE													
HARRIS FLAT	2.10	1.90	4.20	1.70	0.10	4.40	0.80	1.40	1.40	0.30	2.10	0.50	20.90
HAYDEN FORK	3.07		9.62	0.68	3.07	3.95	2.57	2.46	1.97			6.75	34.14
HENRY'S FORK												25.31	25.31
HERD HOLLOW												*	*
HEWINTA GUARD STATION			6.88	0.82	1.64	1.72	3.67	2.30	1.00			3.90	21.93
HICKERSON PARK			3.38	0.88	1.48	1.90	2.26	2.44	0.38			5.45	18.17
HOBBLE CREEK SUMMIT	5.70		5.78	1.97	2.43	3.30	1.68	2.01	1.62			4.05	28.54
HORSE RIDGE			17.40	1.61	3.40	3.40	4.50	3.88	1.12			4.90	40.21
INDIAN CANYON			10.21	0.75	1.80	3.00	1.72	1.41	0.27			6.72	25.88
JACKSON PARK			10.39	0.87	1.60	3.60	1.89	2.03					
KIDNEY LAKES													
KIMBERLY MINE			11.92	1.99	2.38	2.76	7.46	3.47	1.82			30.16	30.16
KING'S CABIN			6.96	0.52	1.45	2.82	2.13	2.08		6.01		6.35	38.15
KLODKE NARROWS			13.20	0.83	2.79	1.96	3.27	3.39	0.58			4.46	27.01
KOLOB-CRYSTAL	3.90	3.60	6.70	2.40	0.80	7.00	2.50	1.40	1.25	2.10	0.20	7.21	33.90
LAKE CREEK									0.50			1.90	33.00
LAKEFORK BASIN	5.00	4.20	1.50	1.30	2.10	3.60	2.10	3.50	32.81	3.60	0.70	5.96	38.77
LAKEFORK MOUNTAIN #1			9.57	1.09	0.90	3.42	1.93	2.00	0.90	6.60		3.20	31.70
LAMB'S CANYON #2			10.48	1.36	1.55	3.40	2.65	4.21				6.56	32.07
LASAL MOUNTAIN (UPPER)	5.00		4.90		4.30	3.45	6.85	2.00	1.15			5.47	29.12
LEVAN	2.76	0.88	1.21	1.49	0.74	1.70	0.95	1.05		1.58	0.07	7.40	35.05
LIGHTNING LAKE	5.50	6.20	5.30	1.40	3.10	7.10	2.60	4.30	1.38	1.58	0.07	1.09	14.90
LILY LAKE	2.71	4.10	3.03	0.87	2.17	1.90	2.56	2.74	1.60	3.60	0.10	2.00	42.80
LITTLE BEAR (UPPER)			14.23	0.85	4.21	2.58	3.16		2.32			4.61	27.01
LITTLE GRASSY CREEK			8.30	1.26	0.90	1.30	3.27	1.42	0.57			6.79	35.85
LONG FLAT	3.30		4.51	1.62	1.40	1.57	3.21	1.02					
LOST CREEK RESERVOIR					*	1.41	1.12	3.24	0.62			6.88	23.51
MAMMOTH COTTONWOOD	5.40	2.60	4.40	2.10	1.90	2.40	2.70	1.90	0.62	3.00	0.50	3.50	9.89
MERCHANT'S VALLEY (UP)			9.54	1.55	1.85	2.10	5.43	2.52	1.60			2.40	30.90
MIDDLE CANYON	3.10				14.08	5.40	2.31		1.59			3.91	28.49
MIDWAY VALLEY	3.90	4.00	8.40	2.70	1.40	8.10	3.20	3.30		4.70	0.90	13.00	37.89
MONTE CRISTO R.S.	6.03		11.15	1.64	4.38	4.00	5.66	3.12	1.20			2.30	44.10
MOSBY MOUNTAIN			8.17	0.74	1.08	2.79	1.12	2.49	1.42			4.50	41.90
MT. BALDY RANGER STATION			11.06	1.70	2.11	3.89	3.35	1.29	1.84			9.25	27.48
MUD CREEK			10.92	0.50	2.08	3.82	3.42	2.13	1.10			3.50	26.90
OAK CREEK			8.79	1.42	1.87	3.60	2.92	3.49	1.73			5.55	29.52
ORANGE OLSEN			7.92	0.45	0.90	1.38	1.11	0.97	1.73			5.11	28.93
PANGUITCH LAKE			5.44	0.93	0.32	1.97	1.81	1.07	0.67			5.45	18.85
												8.40	19.94

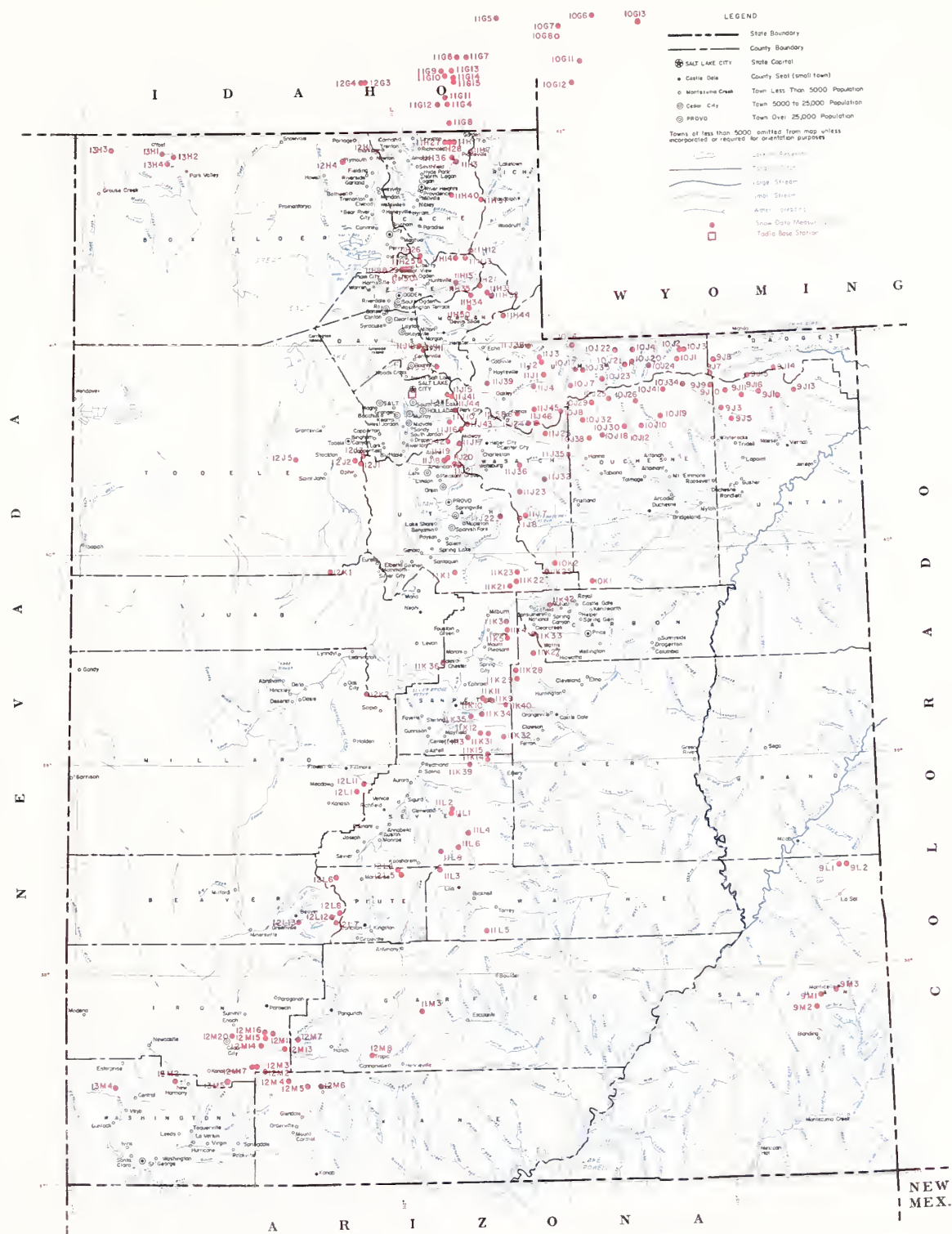
STATION	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
PARADISE PARK			9.03	0.71	1.78	3.60	1.30	2.41	1.99			10.90	31.72
PARLEY'S CANYON SUMMIT			13.99	1.67	2.56	4.45	3.20	3.93	2.50			3.38	35.68
PAYSON RANGER STATION	5.80		6.90	1.70	1.70	3.06	3.31	3.19	0.99			5.51	32.16
PICKLE KEG SPRINGS	2.60	3.50	3.30	1.90	1.80	4.80	4.00	2.30	0.80	2.10	0.10	1.00	28.20
PINE CANYON												25.90	25.90
PINE CREEK			12.36	2.77	2.02	3.33	7.60	7.81	1.37			5.54	42.80
REDDEN MINE LOWER			13.76	1.29	3.07	3.70	1.94	2.93	1.33			5.08	33.10
RED PINE RIDGE	5.51		9.45	1.15	2.67	4.16	3.40	3.16	1.59	4.11		2.74	37.94
REE'S FLAT			10.57	1.55	1.78	2.24	3.23	2.32	2.32			2.70	26.71
REYNOLDS PARK												36.92	36.92
ROCK CREEK RANCH			8.95	0.97	1.16	2.39	2.35	1.63	0.82			9.45	27.72
ROCKY BASIN-SETTLEMT. CN					20.98	4.20	2.31					13.22	40.71
SAGEBRUSH FLAT	3.15				*	1.67	2.54	2.06	1.10			4.05	
SEELEY CREEK RS #2	5.20	3.60	3.40	1.80	0.90	1.80	2.00	2.40	1.10	2.00	0.00	1.80	26.00
SARGENT LAKE									29.40			5.90	35.30
SHADOW LAKE												42.90	42.90
SHINGLE MILL			7.27	1.19	2.76	1.96			6.55			1.97	21.70
SMITH & MOREHOUSE	3.98		7.93	0.73	2.16	3.90	2.18	2.95	0.86			5.60	30.29
SOAPSTONE RANGER STATION	3.38		7.12	0.82	2.21	3.84	1.90	2.21	0.92			6.55	28.95
SPIRIT LAKE			7.00	1.06	2.55	3.49	3.54	1.91	0.68			11.00	31.23
STEEL CREEK PARK			8.24	1.07	2.05	1.80	3.67	1.69	2.24			5.96	26.72
STILLWATER CAMP	2.09		5.75	0.78	1.52	1.87	2.07	1.74	1.91			4.44	22.17
STRAWBERRY DIVIDE	4.80	1.70	8.20	2.30	1.50	5.10	3.20	0.80	1.10	2.40	0.60	1.90	33.60
STUART R.S. (OLD)			9.12	0.63	1.54	2.60	2.56	1.51	1.04			5.70	24.70
TALL POLES			9.90	1.80	1.00	3.40	6.40	0.70				6.10	29.30
TIMPANOGOS DIVIDE	6.45	4.12			16.80	2.30	4.10	4.70	2.90			3.92	45.29
TONY GROVE LAKE	5.80	8.90	7.30	2.20	4.20	5.50	2.40	3.40	1.10	3.50	0.10	3.70	48.10
TONY GROVE R.S.			11.25	1.68	3.20	1.74	2.46	2.09	0.94			5.70	29.06
TRAIL LAKE	4.00		12.16	1.25	3.26	4.67	2.59	3.12	1.15			7.58	39.78
TROUT CREEK			6.26	0.55	2.18	2.93	2.29	2.17	1.54			8.00	25.92
VERNON CREEK	5.10	3.20	3.00	2.20	2.00	3.30	0.30	4.40	0.90	2.00	0.10	2.10	28.60
WEBSTER FLAT			14.51	2.43	1.35	3.73	3.90	3.53	1.64			5.90	36.99
WHITE RIVER #1			9.28	1.80	1.84	3.18	1.50	2.22	1.20			4.30	25.32
WIDTSONE-ESCALANTE #3			8.45	1.56	0.95	3.84	4.75	2.09	1.17			5.70	28.51
WILLOW FLAT	4.10	4.68	3.30	2.20	4.75	2.38	3.46	2.71	0.98			6.45	35.01
WF OF THE DUCHESNE									30.11			6.03	36.14
YANKEE RESERVOIR			7.29	1.19	0.88	2.95	3.89	2.91					*

NOTE: Blank spaces indicate no reading taken, next reading is cumulative (except as noted \*).

\*: Gage molested, data for this period lost.







## SNOW COURSES AND RELATED DATA MEASURING SITES

UTAH

1983



ALBERS EQUAL AREA PROJECTION

USGS National Atlas 1:1,000,000 AT-100  
Equal-Area projection (1967) used as source  
for base map and adopted for SCS use.

INDEX TO UTAH, BEAR & UPPER COLORADO RIVER BASINS

GREAT BASIN DRAINAGE

Number	State	Name	Section	Township	Range	Elevation	Number	State	Name	Section	Township	Range	Elevation	Number	State	Name	Section	Township	Range	Elevation				
UPPER BEAR RIVER (above Harer, Idaho)																				DUCHESNE RIVER				
10G11	W	Big Park	7	27N	117W	8,700	12J2	U	Bevan's Cabin	24	4S	4W	6,450	10J41ap	U	Altwood Lake	13	4N	4W	10,840				
10G12	W	Burt-Miller Ranch	19	3N	106E	7,900	12J5P	U	Deseret Peak	15	4S	7W	9,250	10J30PST	U	Brown Duck Ridge	8	2N	6W	10,600				
10G13	W	Hayden Fork	25	23N	117E	9,400	12J4P	U	Indian Canyon No. 2	28	4S	3W	7,000	11J23MPST	U	Chaparral-Whiterocks Lakes	3	4N	1W	10,350				
10G12PST	U	Kelly Ranger Station	13	26N	118W	8,200	11J44	U	Mill Creek	18	1S	2E	6,950	11J23MPST	U	Daniel's-Strawberry Summit	20	2S	11W	8,000				
10J35p	U	Lily Lake	34	2N	105W	9,050	11J10	U	Mill D South Fork	25	1S	3E	7,400	11J7P	U	East Portal	36	7S	6E	7,560				
11H12PST	U	Monte Cristo R. S.	4	8N	4E	8,960	12J1PST	U	Rocky Basin-Settlement Canyon	30	4S	3W	8,900	10J26PST	U	Five Point Lake	28	4N	5W	11,000				
10G16PST	W	Porcupine Meadows x	29	30N	116W	8,900	11J16P	U	Silver Lake (Brighton)	35	2S	3E	8,725	10K1PST	U	Indian Canyon	2	11S	10E	9,100				
10G17PST	W	Snake River	15	29N	115W	9,000	11J46P	U	Snow Bird (oad Valley)	18	3S	3E	7,700	10J39P	U	Jackson Park	25	3N	4W	10,600				
10G13MP	U	Stillwater Camp	32	2N	105W	8,400	12K1PST	U	Vernon Creek	21	10S	5W	7,500	10J39P	U	Lakefork Basin	28	3N	3W	11,000				
10J17P	U					8,550											28	3N	3W	11,000				
LOWER BEAR RIVER (below Harer, Idaho)																				PRICE RIVER				
11H37PST	U	Big Lake	18	11N	5E	7,950	12L4PST	U	Box Creek	33	26S	2W	9,300	10J10PST	U	Lakefork Mountain No. 3	20	2N	2W	10,200				
11G11	U	Christensen Ranch	27	13S	41E	5,600	12M8	U	Box Creek	36	26S	4W	8,000	10J29PST	U	Lightning Lake	23	4N	8W	10,500				
12H1P	U	Clarkston Mountain	29	14N	2W	6,300	12M13PST	U	Castle Valley	23	36S	8W	9,580	10J18PST	U	Mosby Mountain	33	3N	1E	9,500				
11G12	I	Cub River Ranger Station	5	15S	41E	5,400	12M4P	U	Duck Creek R. S.	11	38S	8W	8,700	10J18PST	U	Paradise Park	33	3N	1E	9,500				
11G14a	I	Dry Basin	30	13S	42E	7,900	12M5PST	U	Harris Flat	24	38S	7W	7,700	10J32P	U	Shadow Lake	29	3N	7E	10,100				
11G15	I	Dry Creek Flat	31	13S	37E	6,350	11L9p	U	High-Top Mountain	36	25S	1E	11,400	11J8PST	U	Strawberry Divide	2	4S	12W	8,400				
11G16PST	I	Emigrant Summit	24	12S	42E	6,500	12L6PST	U	Kimberly Mine	21	27S	5W	9,300	11J35P	U	West Fork of the Duchesne	22	1N	11W	9,480				
11G17	I	Franklin Basin (mouth)	24	12S	42E	6,500	12M1PST	U	Phonetic Lake	4 & 5	36S	7W	8,200											
11H7MP	U	Garden City Summit	34 & 35	14N	4E	7,600	12M7P	U	Squaw Springs	3	27S	2W	9,300											
11H40p	U	Herd Hollow	3	11N	3E	7,200	12L5	U																
11G15a	U	Horseshoe Basin	31	13S	42E	8,000																		
11H18P	U	Klondike Narrows	10	14N	3E	7,400																		
11G13	U	Liberty Springs	17	13S	42E	8,200																		
11H26	U	Little Bear (lower)	16	8N	1E	6,500	11K13PST	U	Beaver Dam	22	19S	3E	8,000											
11H25PST	I	Little Bear (upper)	22	8N	1E	6,500	11K11P	U	Barnsworth Lake	34	23S	2E	9,600											
12G3	I	Oxford Mountain	32	13S	37E	6,800	11K10P	U	G. B. R. C. Headquarters	21	17S	4E	8,700											
11G5	I	Slug Creek Divide	15	10S	44E	7,225	11K12PST	U	Gooseberry R. S.	21	23S	2E	8,000	11K31PST	U	Buck Flat	23	19S	4E	9,400				
11H27	U	Steep Hollow No. 1	9	14N	3E	9,500	11K3MPST	U	Mammoth R. S. - Cottonwood Creek	13	13S	5E	8,800	11K4	U	Gooseberry Reservoir	25	13S	5E	8,700				
11H28	U	Steep Hollow No. 2	9	14N	3E	9,500	11K13P	U	Middle Fork	16	18S	4E	9,600	11K5P	U	Huntington-Horseshoe	12	14S	5E	9,800				
11G9	I	Strawberry Creek	9	13S	41E	5,800	12K2P	U	Dakota Creek	19	17S	3W	7,760	11K28PST	U	Orange Dism	31	17S	6E	7,200				
11H36PST	I	Strawberry Mink Divide	14	13S	41E	6,800	11K39PST	U	Eden Valley R. S.	4	21S	3E	9,000	11K9PST	U	Red Pine Ridge	3	16S	6E	9,200				
11H3MP	U	Tony Grove Lake	5	13N	3E	8,400	12L1P	U	Pickle Keg Springs	4	21S	3E	9,000	11K27P	U	Sesley Creek	25	17S	4E	10,000				
11H3MPST	U	Tony Grove Ranger Station	11	13N	3E	6,250	12L1PS	U	Pine Creek	24	22S	4W	8,700	11K29	U	Stuart R. S.	8	15S	7E	7,950				
11G4P	I	Willow Flat	2	15S	41E	6,100	12L1P	U	Reed's Flat	20	15S	2E	7,300	11K32	U	Upper Joe's Valley	21	16S	6E	8,900				
							11K31P	U	Thistle Mill	19	16S	3W	6,200			Wrigley Creek	27	19S	5E	9,000				
							11K35U	U	Thistle Flat															
RAFT RIVER																				MUDDY RIVER				
13H2a	U	Clear Creek Meadows	26	14N	14W	9,050																		
13H4PS	U	George Peak	4	13N	14W	9,000																		
13H1	U	One Mile Summit	17	14N	14W	7,330	12L13	U	Beaver Race Track	23	29S	7W	6,020	11K14	U	Black's Fork	24	20S	4E	9,200				
13H3a	U	One Mile Summit	17	14N	17W	7,670	12L7PST	U	Big Flat	1	29S	4W	10,290	11K15PST	U	Dill's Camp	27	20S	4E	9,200				
							12L12PST	U	McKenzie's Valley (upper)	8	29S	5W	8,750											
							12L8	U	Otter Lake	12	29S	5W	9,600											
OGDEN RIVER																				FREMONT RIVER				
11H14M	U	Beaver Creek-Slunk Creek	22	8N	3E	7,150																		
11H8PST	U	Ben Leonard Peak	3	7N	1W	8,000																		
11H30PST	U	Ben Leonard Trail	32	7N	3E	5,500	12M16	U	Birch Crossing	23	35S	9W	8,100	11L4PST	U	Black's Flat-U. M. Creek	33	24S	3E	9,400				
11H35p	U	Causey Dam	34	7N	3E	5,500	12M14	U	Brian Head	10	36S	9W	10,000	11L5	U	Donkey Reservoir	9	30S	4E	9,800				
11H13MPST	U	Dry Bread Pond	19	8N	4E	8,350	12M15P	U	Trail Poles	26 & 35	35S	9W	8,800	11L6	U	Fish Lake	35	26S	1E	8,700				
11H34p	U	Galender's Peak	21	8N	4E	8,350	12M11P	U	Yankee Reservoir	20	35S	8W	8,700			Johnson Valley	24	25S	2E	8,650				
11H3P	U	Sagebrush Flat	21	7N	3E	6,300																		
WEBER RIVER																				SOUTHEASTERN UTAH DRAINAGES				
11J2a	U	Beaver Creek R. S.	28	2S	7E	7,500	13M4MP	U	Little Grassy Creek	14	38S	18W	6,100	9M1P	U	Buckboard Flat	36	33S	22E	9,000				
11J15PST	U	Chalk Creek No. 1	4	1N	8E	9,100	13M2MPST	U	Long Flat	2	38S	14W	8,000	9L1	U	Camp Jackson	22	34S	22E	8,600				
11J2MPST	U	Chalk Creek No. 2	29	2N	8E	8,200										Lasal Mountain	5	27S	24E	8,800				
11J3MP	U	Chalk Creek No. 3	7	2N	8E	7,500	10J23a	U	Burnt Creek	4	1N	11E	9,700	9M3	U	Monticello Park	25	33S	23E	7,050				
11J45a	U	East Shingle Lake	6	2S	8E	9,750	9J13P	U	Burnt Creek	4	1S	20E	7,900											
11J12P	U	Farmington Canyon (lower)	15	3N	1E	6,950	10J24p	U	Henry's Fork	8	1S	22E	8,500											
11J11PST	U	Farmington Canyon (upper)	23	3N	1E	7,000	10J4P	U	Hewitt's G. S.	29	2N	14E	10,000											
11J14p	U	Hardscrabble	29	5N	4E	9,300	9J8P	U	Hickerson Park	33	3N	13E	9,500											
11H21PST	U	Horse Ridge	22	2N	2E	6,700	9J15p	U	Hightline Trail	13	2N	17E	9,100											
11H31	U	Kilgill Creek	25	7N	4E	8,260	10J3	U	Hole-in-the-Rock	13	2N	15E	9,150											
11H32P	U	Lost Creek	20	6N	5E	7,300	10J3	U	Hole-in-the-Rock G.S.	32	3N	16E	8,300	10J7	U	Snow Course Only- Precipitation Gage	10,7							
11J43P	U	Park City Summit	27	6N	4E	7,300	9J1PST	U	King's Cabin (upper)	22	1S	21E	8,200	10J7M	U	Snow Course and Soil Moisture Station	10,7M</							



# **Agencies Cooperating in Utah Snow Surveys**

## **U. S. GOVERNMENT AGENCIES**

- U. S. Department of Agriculture
  - Soil Conservation Service
  - Forest Service
- U. S. Department of Commerce
  - NOAA, National Weather Service
- U. S. Department of Interior
  - Bureau of Reclamation
  - Geological Survey
  - National Park Service

## **STATE AGENCIES**

- Utah State University
- Utah State Department of Natural Resources
  - Division of Wildlife Resources
  - Division of Water Resources
  - Division of Water Rights
  - Bear River Commissioner
  - Price River Commissioner
  - Provo River Commissioner
  - Sevier River Commissioners
  - Spanish Fork River Commissioner
  - Utah Lake and Jordan River Commissioner

## **MUNICIPALITIES**

- Manti
- Salt Lake City

## **ORGANIZED PUBLIC AGENCIES**

- Beaver River Water Users Association
- Board of Canal Presidents - Jordan River
- Central Utah Conservancy District
- Emery Canal and Reservoir Company
- Moon Lake Water Users Association
- Ogden River Water Users Association
- Provo River Water Users Association
- Strawberry Water Users Association
- Sevier River Water Users Association
- Weber River Water Users Association
- Weber Basin Conservancy District

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